## Cruer description

iremariver is a high heacaroom preamp wai makes any rig sound bigger and better combined with a foot-switcha
that gives you amazingly lush and swirty pulses. - Tremdriver incorporates three EP-3 style 24 a series/parallel configuration being modulated by the discrete oscillator frim the Univibe to create the ultimate based preamp and harmonic tremolo.
Designed to run towards the end of your pedal chain. The JFE
preamp can boost or attenuate your preamp can ontoos over your volume level and how hard you're hitting your amp without compromising the settings of your other pedals. Think of Tremdriver as your master fader plug-in that makes your mix, or in this case, your pedalboard, instant: igger with a wider soundstage.
Switch on the LFO to give your instrument the magical
harmonic tremolo pulse as your sound see-saws between harmonic tremolo pulse as your sound see-saws
fine-tuned overlapping bass and treble bands.
Utilizes all-discrete, through-hole components specifically
selected to achieve the desired sound + response Carbon selected to achieve the desired sound + response. Carbon composition resistors for their subtle warm harmonics. Premium
orange drop and axial capacitors for their creamy punch and wide sound stage. Tremariver features specially selected and matched JFETS.

## - Housed in kiinycasterxs exchusve weage enclosure.

## sound+response

Designed \& handbuilt in Portland, Oregon USA
Sonic concept/circuit. PCB, \& enclosure design - Howard Cee
Visual concet//rt direction \& design - WB72 Visual concept/art direction \& design - WB72
Handlouilf by - Steve Hamari \& Jean Mastaler Global scles $\&$ business management - Scott Miller www.kititycasterfX.com @kittycasterFX


# tient 

 live been fascinated by the "harmonic vibrato" (or "brown paneltremolo") sound since the first time I heard it -it was such a lush and
swirly sound! The concept is super simple - take the signal and split it swirly sound! The concept is super simple - -take the signal and sp
into high and low frequency bands and then pan back and forth between them. The result can end up sounding like a magical cross between tremoto, vibrato, phasing, and univibe. I wanted to come up with my own take on the idea with a particular emphasis on making
the audio path big, warm, and wide with lots of headroom. me aucio pain big, warm, and wide winh ois of heaciroom. experimenting with difierent circuit blocks and oscillators. I kept at it untill tound a combination of elements that sounded magieal. In
some ways, what I arrived at seems obvious in hindsight. But Ive some ways, what I arrived at seems obvious in hindsight. Sut 've
noticed that it isn't always obvious how to get to a solution that seems like it couldn't have been done any other way. lt's kind of like when you hear a great guitar riff and wonder to yourself. "man, what great rifit but it's so simple to playl How come I didn't come up with

So what did I end up with? Imagine a cross between a brown pane Fender amp trem, a Univibe, and an EP-3 Echoplex because that's
exactly what I did! I took those building blocks, came up with the circuity to stitch them all together, and then spent a year tuning and refining the circuit untill was happy with it
I'm pretty stoked about this circuit. It's a completely fresh take on a
classic idea. I Iuess that's what I Iol. classic id stil gass mat I Howard


## directions

Tremdriver is not two separate pedals in one unititit is a three-stage
preamp with two of the stages running in parallel. When the LFO preamp with two of the stages running in parallel. When the LLFO function is engaged it is like turning the gain up and down alte
between the two stages to create the magical pulsing effect. Place Tremdriver somewhere towards the end of your pedal chair Reverb, delay, and output buffer type pedals make sense to go after iremdriver. Most boost, drive, distortion, fuzz, filter, $E Q$, modulation, and wah pedals work best in fron
There are no absolute rules though so take this as a guideline and hen spend time experimenting to hear what works best for you. But do lower voltage pedals in front.
A good starting point to explore the preamp function is to set both DRIVE and OUTPUT controls at noon, SPEED to taste, and LFO BIAS
somewhere in the zone indicated on the dial legend. omewhere in the zone indicated on the dial legend.
Do you want to boost your amp up with a punchy and thick boost? or
Do you want to run your pedal board with your stage settings but be your amp or other pedals? Turn the DRIVE control way down and then set the OUTPUT to a low setting.
otherwise, Tremdriver is pretty intulitive so just experiment and find your wn sounds and applications for it!
Mounting the Tremdriver to your pedalboard:
All kcFX pedals come with four rubber feet that screw into the pedal
and can be removed simply by turning them with your fingers. If you and can be removed simply by turning them with your fingers. If you Wish to velcro your pedal to your pedalboard, simply replace the four
rubber feet with the included counter-sunk screws to get a perfectly flat bottom surface for secure velcro-ing.

for demo videos and more info go to WWW.KITTYCASTERFX.COM/PRODUCTS/TREMDRIVER

## controls

$\Delta$
DRIVE sets how hard the second JFET to relax the gain and pull the soundstage back. Turn it up to push your sound to the foreground. Crank it up for a bif of hair-around-theedges breakup pickup
$\triangle$ SPEED sets the rate of the LFO for the range from slow pulses all the way to quivering tremolo.
3
OUTPUT should be adjusted after you set The DRIVE control to balance the output
$\Delta$ LIOO BIAS adjusts the waveform of the Lro. Iremdriver works by splititing your signal into high and low frequencies and The higher the LFO BIAS is set the steepe the notches are. For the thickest swirl set the LFO BIAS within the lower range of the control as indicated by the dark
area on the dial. This will dial in more overlap between the high and low trequencies giving you almost

5 BYPAss FOOTSWITCH toggles pedal h/bypass. BYPASS is true mechanic $\Delta$ LFO FOOTSWITCH toggles the LFO on/off When the LFO is off the LED stops pulsing
and Tremdriver is now in preamp mode. When the LFO is on the LED pulses and the tremolo sound can be adjusted by The SPEED and LFO BIAS controls. Setting LFO BIAS to minimum results in no LFO
pulses. For my favorite response, turn it pulses. For my favorite response, turn
down to minimum and then while playing a chord, turn it up untill it just starts to modulate. This will help you find
sample settings



## power

Tremariver is powered by a standara 9 -voif $D C$ power supply. Do no to plug in any power source greater than 9.6 volts.
Internally that 9 volts is boosted up to a zener-regulated 24 volts with the power supply filtering specifically voiced for the best playing response
with a lot of headroom. Temdiver does not run

## specifications

$\begin{array}{ll}\text { Input impedance } \\ \text { Output impedance } & 1 \mathrm{~m} \Omega \\ 10 \mathrm{k} \Omega\end{array}$
Bypass
Current
Bypass
Current draw
true-bypass, grounded input

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